



**UDRI-TR-99-00006B**

## **SEARCH & SUMMARY REPORT**

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### **AFTER ACTION REVIEW (AAR) TAKE-HOME PACKAGE (THP) EVALUATION (VOLUME II, LITERATURE SEARCH)**

**January 1999**

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**Dayton, OH 45469-0157**

## **ACKNOWLEDGMENTS**

The UDRI Human Factors Group thanks the following authors for providing information and allowing us to reprint samples of their after action review system graphic displays. Dr. Larry Meliza of the Army Research Institute STRICOM field unit, John Nordyke of Advancia, Inc., and Julia Loughran, formerly Virtual Training Repository (VTR) project leader with Institute for Defense Analysis, now with ThoughtLink, Inc. Special thanks go to Mrs. Marjo van Patten at the University of Dayton Research Institute Technical Information Services Office (TISO) for her diligent database literature search efforts. We also want to acknowledge Dr. Mona Crissey for sponsoring continued research in the critical area of after action review methods and technology, Observer/Controller training needs, and take-home package effectiveness.

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4. TITLE AND SUBTITLE <b>After Action Review (AAR) Take-Home Package (THP) Evaluation (Volume II, Literature Search)</b>		5. FUNDING NUMBERS <b>N61339-98-M-0378</b>	
6. AUTHOR(S) <b>Christopher R. Taylor and Frank C. Gentner</b>			
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12a. DISTRIBUTION / AVAILABILITY STATEMENT  <b>Approved for public release; distribution is unlimited.</b>			12b. DISTRIBUTION CODE  <b>A</b>
By US Army STRICOM Security Officer, Charles Hoeft, on 1 March, 1999.			
13. ABSTRACT ( <i>Maximum 200 Words</i> ) This report was commissioned to determine whether evaluations of military training After Action Review (AAR) Take-Home Packages (THPs) have been documented in the scientific and technical literature. Focusing on AAR- and THP-related documents since 1987, the UDRI Human Factors Group identified only one document explicitly reported on the THP effectiveness during this period. Fobes and Meliza (1988) reported a survey of commanders of three divisions rotating through the National Training Center (NTC) on the effectiveness of the standard THP. While their finding was based on technology available at that time, and the sample size and location are limited, the observations on need for improvements to THPs may still be applicable to current generation THPs. New PC-based graphics and available Internet connections could advance the capabilities and effectiveness of THPs. Lacking a current study of THP effectiveness, and since considerable effort is expended to produce THP products and much could be gained from effective THPs, it seems appropriate to conduct a new study of THP effectiveness to identify specific improvements needed for this training product. This proposed study could survey live, constructive, and simulation exercises participants regarding the usage for each THP product, most effective THP methods, and desired improvements and configurations that would encourage field use. This volume (II) presents the relevant citations and abstracts that resulted from the literature search.			
14. SUBJECT TERMS  <b>Military Training Effectiveness, After Action Review (AAR), Take Home Package (THP) or Take-Home Package, Evaluation, Feedback, Debriefing Methods</b>			15. NUMBER OF PAGES  <b>34</b>
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Prescribed by ANSI Std. Z39-18  
298-102

## **NOTICE**

This report is presented in two volumes. Volume I presents the approach taken and the summary of findings, together with a discussion and conclusions. Volume II presents the results of the literature search containing unclassified, unlimited citations and abstracts of relevant articles and reports.

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## **1. TASK DESCRIPTION AND PURPOSE**

The US Army Simulation, Training and Instrumentation Command (STRICOM), Program Manager – Combined Arms Tactical Training (PM-CATT) office requested the UDRI Human Factors Group conduct a *Search and Summary* to determine whether the effectiveness of THPs have been evaluated in the scientific and technical literature.

This volume (II) contains the literature search results from selected non-copyrighted databases.

## **2. LITERATURE SEARCH METHOD**

### **2.1 Literature Search Procedures**

The search for bibliographic information regarding military training After Action Review (AAR) Take-Home Packages (THPs) reviewed the following databases:

- DTIC CD-ROM
- DTIC Defense RDT&E Online System (DROLS)
- National Aeronautics and Space Administration (NASA) Recon
- iDialog, and
- PsycINFO
- Education Abstracts
- Dissertation Abstracts
- Compendex

In addition to these databases UDRI-HFG searched the World Wide Web (WWW) by querying most of the established Internet search engines, using the keywords listed below.

An initial search of the databases revealed over 100 citations and abstracts, some of which were unrelated to the specific objectives outlined in the task description. Irrelevant citations and abstracts were eliminated, and the remaining material has been compiled in the Literature Search section of this report.

### **2.2 Search Keywords**

The initial search, conducted in November 1998 by UDRI analysts and the UDRI Technical Information Service Office, focused on identifying documents concerning military training AAR THPs and their effectiveness. Keywords used include the following:

- Debriefing or Critique
- After Action Review or AAR
- Take-home Report, Take Home Report, Take Home Package or Take-Home Package (THP)  
(Note: used both the unit modifier “take-home” and separate words “take home”)
- Performance assessment
- Evaluation report

- Performance critique
- Effectiveness (of THPs)

Analyzing the results from the initial search allowed us to narrow the search. This resulted in searches on specific US Army training systems and any studies conducted in the AAR area. Once the information was taken from the initial search, we concentrated on specific systems within the US Military, focusing primarily on the Army, such as the following (*presented alphabetically*):

- Automated Training Analysis and Feedback System (ATAFS)\*
- Aviation Reconfigurable Manned Simulator System (ARMS)
- Battle Command Training Program (BCTP)
- Brigade Operation Display and After Action Review System (BODAS)
- Combat Training Center Archive
- Combatant Command Training (CTC)
- Corps Battle Simulation After Action Review System (CBS AARS)
- Digital After Action Review Technology (DAART)
- Joint Task Force Training Program (JTFTP)
- National Training Center – Objective Instrumentation System (NTC-OIS)\*
- Simulation Training Integrated Performance Evaluation System (STRIPES)
- Standard Training Assessment & Reporting System (STARS)
- Standardized Army After Action Review System (STAARS)
- Training Analysis Repository and Graphical Evaluation Toolset (TARGET)\*
- Unit Performance Assessment System (UPAS)\*

### **3. ORDERING DOCUMENTS**

Most documents identified in this volume can be obtained via local resources, such as city, university, or company libraries or through inter-library loan programs sponsored by these libraries. However, some documents may be available only through special organizations, such as the Defense Technical Information Center (DTIC), the National Technical Information Service (NTIS), or commercial document vendors.

#### **3.1 Defense Technical Information Center (DTIC)**

DTIC is the central repository for documents resulting from research supported by the Department of Defense (DoD). DTIC maintains Technical Report (TR) and Work Unit Information Summary (WUIS) databases.

Documents from the DTIC TR database (including documents from the DTIC CD-ROM and Scientific and Technical Information Network [STINET]) are identified by an accession number that begins with "AD," such as AD-A123 456. Most of these documents are available through DTIC. However, some documents may not be available through DTIC, and the citations for these documents contain the necessary document acquisition information.

The DTIC WUIS database contains summaries of ongoing research. Unlike the TR database, the WUIS database does not contain abstracts for documents that can be obtained through DTIC or any other source. Instead, most summaries will provide point-of-contact information for the principal investigator or the contract monitor associated with the summarized work unit.

To order documents from DTIC, you must first be a registered DTIC user. Once registered, you may use a deposit account, American Express, MasterCard, or VISA for payment. If you are ineligible to register with DTIC, you may still be able to acquire unclassified, unlimited DTIC documents via the National Technical Information Service (NTIS, discussed below). When ordering documents from DTIC, please cite your DTIC User Code.

For registration: ATTN: Registration Branch (DTIC-BCS)  
For orders: ATTN: Reference and Retrieval Services Branch (DTIC-BRR)  
Defense Technical Information Center  
8725 John J. Kingman Road, Suite 0944  
Ft. Belvoir, VA 22060-6128

Telephone: 1-800-CAL-DTIC (225-3842), select choice from menu  
Registration telephone: (703) 767-8273 / DSN 427-8273  
Registration fax: (703) 767-8228 / DSN 427-8228  
E-mail registration help: [reghelp@dtic.mil](mailto:reghelp@dtic.mil)  
Orders telephone: (703) 767-8274 / DSN 427-8274  
Orders fax: (703) 767-9070 / DSN 427-9070  
E-mail orders help: [msorders@dtic.mil](mailto:msorders@dtic.mil)  
On-line orders: <http://www.dtic.mil/dtic/docorder.html>  
DTIC home page: [w.dtic.mil/<http://www.dtic.mil/>](http://www.dtic.mil/)

### **3.2 National Technical Information Service (NTIS)**

NTIS is a major source for US and foreign government-sponsored research documentation. Orders for NTIS documents can be charged to a NTIS deposit account, American Express, Discover, MasterCard, or VISA. For additional information on establishing a deposit account, you may contact NTIS directly at (703) 487-4064. NTIS document orders may be placed using the following information:

NTIS  
5285 Port Royal Road  
Springfield, VA 22161

Telephone orders: 1-800-553-NTIS (6847) or (703) 605-6000

TDD (hearing impaired only): (703) 605-6043

Fax orders: (703) 321-8547

Fax confirmation: (703) 605-6070

E-mail orders: orders@ntis.fedworld.gov, and call (703) 605-6070 to leave  
your credit card number and expiration date

Further on-line ordering information: <http://www.ntis.gov/ordering.htm>

NTIS home page: [/www.ntis.gov](http://www.ntis.gov)

<http://www.ntis.gov/>

#### **4. TECHNICAL DATA WARNING NOTICE**

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Distribution of this document is subject to **DODD 5230.25** procedures.

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As a condition of obtaining DTIC services, all information received from DTIC that is not clearly marked for **PUBLIC RELEASE** will be used only to bid or perform work under a US Government contract or grant or for purposes specifically authorized by the U.S. government agency that is sponsoring access. Further, the information will not be published for profit or in any manner offered for sale. Non-compliance may result in termination of access and a requirement to return all information obtained from DTIC.

This information was obtained from the **DEFENSE RDT & E ONLINE SYSTEM (DROLS)**, the **Scientific and Technical Information Network (STINET)**, and the **DROLS CD-ROM** produced and hosted by the **Defense Technical Information Center, Ft. Belvoir, VA 22060-6128**.

**Note:** Document costs referenced in this bibliography may not reflect current purchase prices.

## 5. LITERATURE SEARCH RESULTS

The citations and abstracts of scientific and technical documents found to be "relevant" and "somewhat relevant" to the topic are listed here in alphabetical order by the last name of the primary author. Irrelevant citations were culled from this listing. All citations and abstracts are unclassified and unlimited, even when they refer to classified or limited documents. These citations and abstracts all came from the DTIC family of database and are therefore not copyrighted.

- AN (1) AD-A314 351/XAG  
FG (2) 120500  
FG (2) 120700  
CI (3) (U)  
CA (5) BDM Federal Inc Seaside CA  
TI (6) Instruction on Use of Software and Database Access.  
DN (9) Interim rept. 2 Jun 94-30 Oct 94,  
AU (10) **Baldwin, Jack D.**  
AU (10) Philips, Lawrence F.  
RD (11) Aug 1996  
PG (12) 46  
CT (15) MDA903-92-D-0075  
RN (18) ARI-CR-96-67,  
RN (18) XA-ARI  
RC (20) Unclassified report  
AL (22) Availability: Document partially illegible.  
DE (23) \*Computer Programs, \*Databases, \*Access, \*Instruction Manuals, Mission Profiles, Task Forces, Missions, Windows, Graphics, User Needs, Catalogs, Archives, Battles, Menu, Cards.  
DC (24) (U)  
ID (25) AFG (Automated Finders Guide), THP (Take Home Package), MCE (Mission Critical Event), AAR (After Action Review)  
IC (26) (U)  
AB (27) During the period of performance for this project significant enhancements and modifications were made to the following Archive Databases and Tools: Automated Finders Guide (AFG), Battle Replay, Mission Critical Event (M CE) and Take Home Package (THP). The purpose of this report is to provide detailed user documentation for the Archive Databases and Tools

that were enhanced during Delivery Order 28. The AFG is the 'card catalog' of the CTC Archive. It contains the rotation and mission summary data for each Task Force mission and provides listings of data sources that are available in the Archive to support mission analysis. The Battle Replay is a MS-Windows program that shows the movements and firing engagements of the units training at the NTC. The MCE database provides battle summary information consisting of narrative segments from the THP, including the commander's intent, task organization, mission statement and concept of the operation. The MCE also includes a graphic time line representation of major battle events. The THP database is an ASCII text viewer with a specialized menu system providing access to the THP files.

AC (28) (U)

DL (33) 01

DL (33) 23

CC (35) 430984

AN (1) AD-A313 512/XAG

FG (2) 150100

CI (3) (U)

CA (5) BDM Federal Inc Seaside, CA

TI (6) Battle Command Training Program (BCTP): Requirements Analysis.

DN (9) Interim rept. 14 Jul 92-15 Feb 93,

AU (10) **Briscoe, Jack A.**

AU (10) Keesling, J. W.

RD (11) Jul 1996

PG (12) 26

CT (15) MDA903-92-D-0075

PJ (16) 3413

TN (17) C02

RN (18) ARI-CR-96-19,

RN (18) XA-ARI

RC (20) Unclassified report

DE (23) \*Military Requirements, \*Military Training, Air Defense, Materiel, Leadership, Military Doctrine, Maneuvers.

DC (24) (U)

ID (25) Aviation Center, Signal Center, Armor School, Cascom, Intel, Command And Control, Thp (Take Home Package), Ctc (Combat Training Center), Organization, Bcpt (Battle Command Training Program), Database, PE62307A

IC (26) (U)

AB (27) This requirements analysis was performed to determine what issues were of greatest interest to the potential community of users of a BCTP database. This information will help to prioritize the incorporation of BCTP data into the ARI-POM Archive and will inform the organization of the data to facilitate access to the relevant data items. Integration of the BCTP database into the CTC Archive will greatly expand the scope of possible analysis, and enable more systematic examination of issues at all applicable echelons. The overall model for performance evaluation and feedback that forms the basis for the CTC Archive at POM incorporates information about both process (tasks performed by units and individuals) and outcomes (results on the battlefield: casualties inflicted and sustained, terrain won or lost, etc.). This model can apply equally to information from BCTP.

AC (28) (U)

DL (33) 01

CC (35) 430984

AD Number: **ADA351107**

Fields & Groups: Humanities And History, Military Forces and Organizations

Corporate Author: LB and M Associates Inc Lawton OK

Title: **Training Analysis and Feedback Aids (TAAF Aids) Study for Live Training Support**

Descriptive Note: Final rept. 10 Feb-30 Sep 97

Personal Authors: **Brown, Bill R.**; Nordyke, John W.; Gerlock, Derick L.; Begley II, Ira J.; Meliza, Larry L.

Report Date: JUL 1998

Pagination: 285 PAGES

Report Number: 1163-5

Contract Number: DASW01-97-C-0022

Monitor Acronym: ARI, XA

Monitor Series: SR-98-04, ARI

Descriptors: \*Instructors, \*Military Training, Observers, Teaching Methods, Feedback, Workload, Learning, Combat Forces, Smart Technology.

Identifiers: Intrinsic Feedback, \*Combat Training Centers, Digitization of The Battlefield, TES (Tactical Engagement Simulation), Advanced Technology, Workload Reduction, PE65803A

Abstract: Maneuver Combat Training Center (CTC) and home station requirements for exercise control and training feedback are intensive. With the advent of battlefield digitization; tactical decision aids; "smart, intelligent, and brilliant" munitions; advances in non-lethal weapons, and new reconnaissance, surveillance, and target acquisition (RSTA) systems, the workload for trainers continues to spiral. Force

modernization is creating new control and feedback tasks that have the potential to rob trainers of time they would otherwise spend observing, coaching, and facilitating the learning of exercise players. This study: (1) Identifies the impact of force modernization on future exercise control and training feedback functions. (2) Identifies tasks involved in after-action review (AAR) preparation, observer/controller (OC) coordination and mentoring, and take-home package construction. (3) Provides strategies to reduce OC and Training Analysis Facility (TAF) workload. (4) Identifies payoffs in task reduction achieved by each strategy. (5) Does not provide technical solutions or analysis of task criticality, complexity, duration, or frequency for trainer tasks.

Limitation Statement: APPROVED FOR PUBLIC RELEASE

Source Code: 418340

Citation Date: 26 AUG 1998

Cost: \$11.00

AN (1) AD-A328 445/XAG  
FG (2) 150600  
CI (3) (U)  
CA (5) LB And M Associates INC Lawton OK  
TI (6) Developing an Automated Training Analysis and Feedback System for Tank Platoons.  
DN (9) Final rept.,  
AU (10) **Brown, Bill**  
AU (10) Wilkinson, Stephen  
AU (10) Nordyke, John  
AU (10) Riede, David  
AU (10) Huysson, Steve  
RD (11) May 1997  
PG (12) 73  
CT (15) M67004-95-C-0025  
PJ (16) 20605502M770  
RN (18) ARI-RR-1708,  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Automation, \*Army Training, \*Feedback, \*Tank Crews, Simulators, Organizations, Data Displays.  
DC (24) (U)

ID (25) AAR (After Action Review), ATAFS (Automated Training Analysis And Feedback System), Network Simulator Training Environment, PE65502M, WUC02

IC (26) (U)

AB (27) The Army has adopted the After Action Review (AAR) process as the means of providing feedback after collective training exercises and the quality of AARs depends upon how well trainers can prepare and use data displays to show what happened during exercises and guide interactive discussions on how to improve unit performance. A previous report described a demonstration of the capability of the Automated Training Analysis and Feedback System (ATAFS) to automatically generate AAR aids after exercises in the networked simulator environment. This report describes the results of a follow-on effort to complete the development of the complete set of planned AAR capabilities and test the prototype ATAFS in a mix of Army National Guard training environments.

AC (28) (U)

DL (33) 01

SE (34) F

CC (35) 418340

AN (1) AD-B215 579/XAG

FG (2) 050800

FG (2) 140200

FG (2) 150300

CI (3) (U)

CA (5) LB and M Associates INC Lawton OK

TI (6) Demonstrating the Concept of an Automated Training Analysis and Feedback System.

DN (9) Final rept. Jan 92-Aug 95,

AU (10) **Brown, Bill**

AU (10) Wilkinson, Stephen

AU (10) Nordyke, John

AU (10) Hawkins, Ray

AU (10) Robideaux, Bret

RD (11) Jun 1996

PG (12) 90

RS (14) 1250-A-0001

CT (15) M670004-93-C-0042

PJ (16) M770

TN (17) 2114

RN (18) ARI-TR-1043,

RN (18) XA-ARI

RC (20) Unclassified report

AL (22) Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; 29 Oct 96. Other requests shall be referred to U.S. Army Research Institute for the Behavioral Sciences, Attn: PERI-IF, 5001 Eisenhower Ave., Alexandria, VA 22333-5600.

DE (23) \*Automation, \*Training Devices, \*Army Training, \*Prototypes, \*Feedback, \*Military Exercises, Observers, Simulation, Armor, Control Systems, Commerce, Preparation, Real Time, Demonstrations, History, Expert Systems, Voice Communications, Platoon Level Organizations.

DC (24) (U)

ID (25) ATAFS (Automated Training Analysis And Feedback System), AAR (After Action Review), SIMNET (Simulation Networking), O/C (Observer/Controllers), Collective Training, Take Home Package, PE65502A, WUC01

IC (26) (U)

AB (27) LB&M Associates developed a prototype Automated Training Analysis and Feedback System (ATAFS) to automate After Action Review (AAR) preparations. ATAFS is an expert system designed to relieve the burden on observer/controllers (O/Cs) in monitoring and assessing player performance during armor platoon simulation networking (SIMNET) exercises. ATAFS permits the O/C to observe the exercise in near real time or to examine past events in exercise history as the system continues to archive the exercise. The system also plays back voice communications synchronously with top-down views of the player unit's activities. ATAFS automatically generates AAR products during the exercise and provides the capability for the O/C to edit these aids at the end of the exercise. This report describes the design of the ATAFS concept and development of a proof-of-principle prototype during two phases of a Small Business Innovation Research (SBIR) effort.

AC (28) (U)

DL (33) 03

SE (34) F

CC (35) 418340

AN (1) AD-A313 513/XAG

FG (2) 050800

FG (2) 050900

FG (2) 150100

FG (2) 250500

CI (3) (U)

CA (5) BDM Federal Inc Seaside CA

TI (6) Battle Command Training Program (BCTP): Front End Analysis.

DN (9) Interim rept. 14 Jul 92-15 Feb 93,

AU (10) Burkett, Jack

AU (10) Briscoe, Jack  
RD (11) Jul 1996  
PG (12) 44  
CT (15) MDA903-92-D-0075  
PJ (16) 3413  
TN (17) C02  
RN (18) ARI-CR-96-17,  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Army Training, \*Command And Control Systems, \*Leadership Training, Data Bases, Warfare, Lessons Learned, Decision Making, Operational Readiness, Battlefields, Military Commanders, Judgement (Psychology).  
DC (24) (U)  
ID (25) BCTP (Battle Command Training Program), PE62307A, WUA794  
IC (26) (U)  
AB (27) The objective of this database specification project is the development of specifications for a BCTP research database and to provide a concrete plan to improve the utility of, and accessibility to, BCTP generated training data for all current and future users. This document summarizes our understanding of the BCTP operational environment with regard to how units and staffs train, specific duties and responsibilities of BCTP and contract staff, and the data produced by BCTP processes. Our goal is to understand the data completely enough to lay the groundwork for a BCTP database that will have enduring value for a number of users in the pursuit of lessons learned, in feedback to units being trained, in the study of systemic issues affecting the Army, and as a means to enhance/improve the BCTP program itself. Data which are currently created during a BCTP rotation: CBS computer data tapes, BTM data, the Intelligence Journal System, OC notes and checklists, Automated Journal System reports, BCTP Analyst generated data, WAARS generated reports, Unit-generated data, AAR video tapes and hard copies, FER, PSP, ACCES, FER database, White Cell directives etc.  
AC (28) (U)  
DL (33) 01  
CC (35) 430984

AD Number: **ADA322045**

Fields & Groups: CYBERNETICS MILITARY OPERATIONS, STRATEGY AND TACTICS

Corporate Author: BDM FEDERAL INC ALBUQUERQUE NM

Title: **Virtual Training Program Orientation Guide.**

Descriptive Note: Final rept. Apr 95-Jul 96,

Personal Authors: **Burnside, Billy L.; Leppert, Martin A.; Myers, William E.**

Report Date: OCT 96

Pagination: 65 PAGES

Contract Number: MDA903-92-D-0075

Project Number: 2O363007A793

Task Number: 2124

Monitor Acronym: ARI, XA

Monitor Series: RP-97-02, ARI

Descriptors:

\*COMPUTERIZED SIMULATION, \*ARMY TRAINING, \*VIRTUAL REALITY, COMBAT READINESS, INFANTRY, TASK FORCES, MILITARY EXERCISES, WAR GAMES, MANEUVERS, PLATOON LEVEL ORGANIZATIONS, CAVALRY.

Identifiers:

VTP(VIRTUAL TRAINING PROGRAM), JANUS COMPUTER PROGRAM, PE63007A, WUR03

Abstract:

This Orientation Guide acquaints leaders of armor mechanized infantry, and cavalry units with the Virtual Training Program (VTP). Additionally, it provides leaders with sufficient information to enable them, in coordination with the Fort Knox VTP Observer/Controller Team, to decide on the type of simulation to use and the echelon and level of training to conduct during a training rotation at Fort Knox or other sites having VTP capabilities.

Limitation Statement:

APPROVED FOR PUBLIC RELEASE

Source Code:

426652

Cost:

\$6.00

AN (1) AD-A277 676/XAG

FG (2) 150300

FG (2) 050200

CI (3) (U)

CA (5) Army Research Inst For The Behavioral And Social Sciences Alexandria VA

TI (6) A Comparison of Information in the Joint Readiness Training Center Archival Records.

DN (9) Final rept. Apr 91-Jun 92,

AU (10) Dyer, Jean L.

RD (11) Jan 1994

PG (12) 60

RS (14) ARI-RR-1659  
PJ (16) 2Q263007A794  
TN (17) 3404  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Combat Readiness, \*Archives, \*Records, \*Case Studies, Army Research, Comparison, User Friendly, Infantry.  
DC (24) (U)  
ID (25) PE63007A, AS794, WUH01, JRTC (Joint Readiness Training Center), Light infantry.  
IC (26) (U)  
AB (27) For this report, a comparative analysis was conducted of three primary archival data sources from the Joint Readiness Training Center (JRTC): the take home packages (THPs), company and task force after action reviews (AARs), and the training and evaluation outline (T&EO) data base. Task force and enemy missions/organizations, battle damage assessments, company tasks and performance, and critical incidents affecting mission performance were examined. This case study of two FY90 JRTC rotations was part of the U.S. Army Research Institute for the Behavioral and Social Sciences (ARI) research effort on unit training and performance at the Combat Training Centers. Each source contained unique information. Sources complemented and supplemented each other, due partly to their differing purposes and the selectivity in the information reported. Sources also differed in ease of use, with the THPs and the paper copy of the task force AARs the most user-friendly. The THP, when complemented by the paper copy and video tape of the task force AAR, will give most archive users a good understanding of each mission. When questions of interest narrow to specific systems, conditions, and/or missions, then all sources should be examined. The archive is located at the ARI Field Unit at Presidio of Monterey, CA.  
AC (28) (U)  
DL (33) 01  
SE (34) F  
CC (35) 408010

Integrating National Training Center Feedback Into Home Station Training Management.

AD Number: ADA213436

Fields & Groups: Personnel Management And Labor Relations Logistics, Military Facilities And Supplies

Corporate Author: Army Research Inst For The Behavioral And Social Sciences Alexandria VA

Title: Integrating National Training Center Feedback Into Home Station Training Management.

Descriptive Note: Final rept.,

Personal Authors: **Fobes, James L.; Meliza, Larry L.**

Report Date: JUN 89

Pagination: 42 PAGES

Report Number: ARI-RR-1523

Descriptors: \*Army Training, \*Training Management, Benefits, Combat Readiness, Interviewing, Military Commanders, Military Doctrine, Missions, Rotation, Stations, Strength (General), Task Forces, Training, User Needs.

Identifiers: PE63743A, NTC (National Training Center).

Abstract: Home station usage of National Training Center (NTC) Take Home Packages (THPs) was assessed and changes identified to enhance corrective and sustainment training. Rotating unit commanders emphasized receiving information on mission outcome, major unit strengths and weaknesses, critical underlying events, and specific training recommendations for particular task force elements. A strawman revision reflects user interviews and capitalizes on potential benefits of ongoing initiatives to improve NTC and Home Station training. Keywords: Army training; Military doctrine; Combat readiness; Army operational; Training management. (SDW)

Limitation Statement: APPROVED FOR PUBLIC RELEASE

Source Code: 408010

Cost: \$6.00

AN (1) AD-A194 322/XAG  
FG (2) 050900  
FG (2) 190500  
CI (3) (U)  
CA (5) ARMY RESEARCH INST FIELD UNIT PRESIDIO OF MONTEREY CA  
TI (6) National Training Center Performance Trends for Mortar Fire Support: Relationship to Training Doctrine.  
DN (9) Final research rept. Jan-Dec 84,  
AU (10) **Hamza, Ann N.**  
AU (10) Williams, Richard K., Jr  
RD (11) Apr 1988  
PG (12) 28  
RS (14) ARI-RR-1468  
PJ (16) 2Q263743A794  
TN (17) 1  
RC (20) Unclassified report  
DE (23) \*Army Training, \*Fire Support, Doctrine, Feedback, Fires, Forecasting, Methodology, Mortars, Optimization, Parallel Orientation, Performance (Human), Strength (General), Supervisors, Training.  
DC (24) (U)  
ID (25) NTC (National Training Center), PE63743A, AS794, WU511.

- IC (26) (U)
- AB (27) This report describes a methodological approach developed for the analysis of mortar performance trend data contained in the Fire Support Operating System section of Take Home Packages (THPs) from the National Training Center (NTC). The purpose of the analysis was to determine the efficacy and practicality of the methodology as a feedback mechanism. The methodology categorized the performance trend data so that unit strengths and deficiencies could be identified, and then these findings were linked to relevant Army Training and Evaluation Program (ARTEP) tasks to assist training managers develop optimal training programs. A parallel study using a larger operating system was discussed. Keywords: National Training Center (NTC), Mortar fire support, Mortar Fire Operating System.
- AC (28) (U)
- DL (33) 01
- SE (34) F
- CC (35) 392184
- AN (1) AD-A195 472/XAG
- FG (2) 050900
- FG (2) 150600
- CI (3) (U)
- CA (5) Army Research Inst For The Behavioral And Social Sciences ALEXANDRIA VA
- TI (6) National Training Center Performance Trends for the Maneuver Operating System: Relationship to Training Doctrine.
- DN (9) Final rept. 1984-1985,
- AU (10) **Johnson, Carol A.**
- AU (10) Williams, Richard K., Jr
- RD (11) Apr 1988
- PG (12) 112
- RS (14) ARI-RR-1466
- PJ (16) 2Q263743A794
- RC (20) Unclassified report
- DE (23) \*Army Training, \*Military Doctrine, Consistency, Maneuvers, Measurement, Patterns, Requirements, Standardization, Strength (General), Training.
- DC (24) (U)
- ID (25) NTC (National Training Center), AS794, PE63743A.
- IC (26) (U)
- AB (27) A detailed analysis of 26 Take Home Packages was conducted to assess the feasibility of determining specific training needs and to link needs directly to Army Training and Evaluation Program (ARTEP) tasks. Performance Trends for the Maneuver Operating System showed consistent strengths and weaknesses in unit performance. The lack of standardization

in topics commented on was identified as a problem. The Operating System structure made translation to an ARTEP structure difficult. Recommendations were made for restructuring the Take Home Package and for standardizing observations. Keywords: National Training Center (NTC), Take Home Package (THP), Performance measurement.

AC (28) (U)  
DL (33) 01  
SE (34) F  
CC (35) 408010

AN (1) AD-A298 839/XAG  
FG (2) 050800  
FG (2) 120900  
FG (2) 230200  
CI (3) (U)  
CA (5) Battelle Memorial Inst Columbus OH  
TI (6) Methods of Displaying Multiple Performance Measures from Simulator Exercises.  
DN (9) Final rept. Jun-Aug 93,  
AU (10) **Mahan, Robert P.**  
RD (11) Apr 1955  
PG (12) 58  
CT (15) DAAL03-91-C-0034  
PJ (16) A793  
RN (18) ARI-RN-95-32,  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Performance, (Human), \*Cognition, \*Virtual Reality, Data Bases, Computerized Simulation, Optimization, Skills, Distributed Data Processing, Real Time, Training Devices, Army Training, Human Factors Engineering, Display Systems, Problem Solving, Data Acquisition, Expert Systems, Military Exercises, War Games, Computer Vision, Data Displays, Interactive Graphics, Computer Networks, Man Computer Interface, Army Operations, Design Criteria, Judgement (Psychology), Tactical Warfare, Platoon Level Organizations, Decision Support Systems.  
DC (24) (U)  
ID (25) DIS (Distributed Interactive Simulation), PE63007A, WU2124, WUC01.  
IC (26) (U)  
AB (27) This report examined the notion of developing a summary display system that would extend the capabilities of the Unit Performance Assessment system (UPAS) in supporting after action reviews conducted in the Simulation Networking (SIMNET) environment. The report

details the initial phase of an effort to produce displays that use integral display technology in supporting after action reviews. The report discusses the Cognitive Continuum Theory as a framework that may guide the development of the summary displays. In addition, the findings suggest that general categories of combat unit actions (Move, Shoot, and Communicate) may serve as a set of global dimensions that are well suited for summary display information. Finally, an empirical study is outlined that documents the proposed next step in the summary display system project. (AN)

AC (28) (U)  
DL (33) 01  
SE (34) F  
CC (35) 052400

AN (1) AD-A254 904/XAG  
FG (2) 050900  
FG (2) 120500  
CI (3) (U)  
CA (5) Army Research Inst For The Behavioral And Social Sciences Alexandria VA  
TI (6) Platoon-Level After Action Review Aids in the SIMNET Unit Performance Assessment System.  
DN (9) Final rept. Apr 90-Oct 91,  
AU (10) **Meliza, Larry L.**  
AU (10) Bessemer, David W.  
AU (10) Burnside, Billy L.  
AU (10) Shlechter, Theodore M.  
RD (11) Jul 1992  
PG (12) 55  
RS (14) ARI-TR-956  
PJ (16) 2Q263007A795  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Prototypes, \*Military Training, \*Computerized Simulation, Addition, Armor, Data Bases, Eye, Feedback, Graphs, Grids, Maps, Measurement, Menu, Missions, Networks, Numbers, Quality, Simulation, Simulators, Standards, Terrain, Tools, Training, Platoon Level Organizations, Computer Networks, Military Exercises, Embedding, Field Army.  
DC (24) (U)  
ID (25) AS795, PE63007A.  
IC (26) (U)

- AB (27) The networking of simulators provides a means of conducting collective training that supplements field exercises. The effectiveness of this training depends, in part, on the quality of feedback units receive during After Action Reviews (AARs). ARI developed a prototype PC-based Unit Performance Assessment System (UPAS); its object was to support the conduct of AARs and provide a tool for training effectiveness research by collecting and analyzing data broadcast over the simulation network. The UPAS loads network data into a relational database patterned after the National Training Center database, and it provides menus of data summary table and graph options for examining these data. In addition, the prototype UPAS replayed exercises from a bird's-eye view over a grid map. This report describes the effort to improve the UPAS to support training feedback and research more effectively, with emphasis on training at the armor platoon level. A threefold increase in the number of Mission Training Plan standards addressed by UPAS was gained by the design and software implementation of UPAS AAR aids that integrate network data with data on terrain features and unit mission plans. SIMNET, Semi-automated forces (SAFOR), Networked simulators, Embedded training, Unit performance measurement, Collective training.
- AC (28) (U)
- DL (33) 01
- SE (34) F
- CC (35) 408010
- AN (1) AD-A232 128/XAG
- FG (2) 120700
- FG (2) 150600
- CI (3) (U)
- CA (5) BDM INTERNATIONAL INC MONTEREY CA
- TI (6) Analysis of the Scope, Functionality, and Usability of the Joint Readiness Training Center (JRTC) Data Base Archive.
- DN (9) Interim rept. May-Sep 89,
- AU (10) **Nichols, Judith J.**
- RD (11) Jan 1991
- PG (12) 83
- RS (14) BDM/MTY-90-0006
- CT (15) DABT56-88-C-0016
- RN (18) ARI-RN-91-24,
- RN (18) XA-ARI
- RC (20) Unclassified report
- DE (23) Archives, Army Operations, Army Training, Battlefields, Battles, Communities, Computer Applications, Damage Assessment, Data Bases, Data Management, Defense Systems, Demonstrations, Graphics, Microcomputers, Missions, Operational Readiness, Personnel, Rotation, Sources, Standards, Training.

- DC (24) (U)
- ID (25) \*Databases, \*Combat information centers, \*Field army, \*Archives, \*Army training, \*Combat readiness, Data acquisition, Scoring, Computer files, PE63007A.
- IC (26) (U)
- AB (27) This report presents an overview of the types of Joint Readiness Training Center (JRTC) unit performance data available to the Army training development community and some analysis techniques that demonstrate JRTC data scope, functionality, and usability. The demonstration analysis was performed across seven JRTC rotations for the defensive mission. Computerized O/C checklist data, personnel Battle Damage Assessment (BDA), and unit take home packages were the primary sources of information. The preparation of JRTC data for examination involved procedures that facilitated computerized data manipulation and generation of statistics across multiple rotations within the constraints of a Zenith Z-248 computer (the Army standard personal computer). The demonstrational analysis yielded only broad results regarding unit performance in conducting defense on the JRTC battlefield. However, the process of preparing and analyzing JRTC data extracted from the ARI-POM data base archive produced multiple illustrations of both positive and negative aspects of the scope, functionality, and usability of the data base archive.
- AC (28) (U)
- DL (33) 01
- CC (35) 422708
- AN (1) AD-A333 328/XAG
- FG (2) 050600
- FG (2) 150600
- CI (3) (U)
- CA (5) NAVAL POSTGRADUATE SCHOOL MONTEREY CA
- TI (6) Methodology and Design of a Multimedia CD-ROM Take Home Package for the National Training Center.
- DN (9) Master's thesis,
- AU (10) **Olenginski, Stanley J.**
- AU (10) Seise, Alan
- RD (11) Jun 1997
- PG (12) 126
- RN (18) XB-NPS
- RC (20) Unclassified report
- DE (23) \*Military Training, \*Army Operations, Data Bases, Observers, Stations, Control Systems, Lessons Learned, Data Management, Battalion Level Organizations, Task Forces, Theses, Identification, Formats, Patterns, Standardization, Graphics, Instrumentation, Tapes, Video Signals, Cassettes.
- DC (24) (U)

ID (25) \*CD-ROM, Multimedia, \*THP (Take Home Package), National Training Center (California), Fort Irwin (California)

IC (26) (U)

AB (27) The National Training Center (NTC) located at Fort Irwin, California performs the critical Army mission of preparing battalion task forces and brigade staffs for combat. With a state of the art instrumentation system and full time observer/controllers (OCs), the NTC provides a unique environment where units conduct tough, realistic training and then review performance through comprehensive after action reviews (AARs). At the conclusion of a rotation, the OCs and their staffs coalesce information from the rotation into a Take Home Package (THP). Unfortunately, the events from the rotation and lessons learned from AARs and the OCs are not effectively incorporated into the THP. Currently, Take Home Packages are without a standardized format and consist of approximately 300 pages of typed comments with numerous video cassette after action review tapes and supporting graphics. The primary emphasis of this research is to develop a "user friendly" multimedia CD-ROM THP that provides a clear overview of a unit's rotation, provides useful observations and supporting data which focus on causes and effects of unit performance, and suggests methods to improve performance through training at home station. The THP will be easy to produce and presents the objective and subjective data from the newly designed relational data base in a logical and easily understood manner. Additionally, the new THP will support methods for simple data manipulation for the purpose of conducting post-rotation analysis and trend identification.

AC (28) (U)

DL (33) 01

CC (35) 251450

AN (1) AD-A253 991/XAG

FG (2) 150600

FG (2) 120700

CI (3) (U)

CA (5) Institute For Defense Analyses Alexandria VA

TI (6) Proceedings of Conference on 73 Easting: Lessons from Desert Storm Via Advanced Simulation Technology Held in Alexandria, Virginia on 27-29 August 1991.

DN (9) Final rept.,

AU (10) Orlansky, Jesse

AU (10) Thorpe, Jack

RD (11) Apr 1992

PG (12) 365

RS (14) IDA-D-1110

CT (15) MDA903-89-C-0003

RN (18) IDA/HQ-92-41371,

RN (18) SBI,XD-AD-E501551

RC (20) Unclassified report

DE (23) \*Military Operations, \*Lessons Learned, \*Air Land Battles, Computerized Simulation, Middle East, Tactical Air Support, Theater Level Operations, Iraq, Kuwait, Indirect Fire.

DC (24) (U)

ID (25) LPN-IDA-A-132, SBI1, Fiscal year 92, Battle of 73 Easting, Desert Storm, Desert Shield, SIMNET (Simulation Network), Desert warfare, ADST (Advanced Distributed Simulation Technology), Close air support, Data communications, Iraqi Republican Guard.

IC (26) (U)

AB (27) The Battle of 73 Easting, named after the map coordinates of its location, occurred on the second day of the war against Iraq. The mission of the Second Armored Cavalry Regiment, moving easterly as advance scouts, was to find and fix the Tawakalna Division of the Iraqi Republican Guard so that the VII Corps could engage and overcome the main Iraqi forces who were retreating to the north. Weather conditions restricted visibility and close air support. Both sides were surprised when Troops Eagle, Ghost, and Iron, outnumbered three-to-one, encountered and destroyed a heavy Iraqi brigade in a defensive posture. A great amount of detailed information about this battle was collected by walking the battlefield, interviewing the participants, and reviewing all available records including radio communications during the battle. These data were used to re-create the events in distributed simulation (i.e., using SIMNET technology); the product, a moving picture permits observers to review what actually happened at any moment from any position or vehicle on any side of the battle. No previous battle has been recorded in greater detail or can be re-created dynamically for study, review and what-if analyses.

AC (28) (U)

DL (33) 01

SE (34) F

CC (35) 179350

AN (1) AD-A303 796/XAG

FG (2) 050600

FG (2) 150100

FG (2) 190500

CI (3) (U)

CA (5) Army Research Inst For The Behavioral And Social Sciences Alexandria VA

TI (6) Rifle Company Performance at the Joint Readiness Training Center. Analysis of Take Home Packages.

DN (9) Final rept. Oct 90-Mar 92,

AU (10) **Salter, Margaret S.**

AU (10) Thompson, Thomas J.

RD (11) Oct 1995

PG (12) 64

RS (14) ARI-RN-96-05  
RN (18) XA-ARI  
RC (20) Unclassified report  
DE (23) \*Army Training, \*Company Level Organizations, \*Gunnery Trainers, Maintenance, Stations, Military Personnel, Combat Effectiveness, Preparation, Training, Operational Readiness, Infantry, Security, Morale, Feedback, Missions, User Needs, Communication And Radio Systems, Rifles.  
DC (24) (U)  
ID (25) PE63007A  
IC (26) (U)  
AB (27) This research is a part of a multi-year program designed to increase unit combat performance capability by identification, development, and evaluation of improvements in home station preparation for combat. The focus here is on Light Infantry company level performance at the Joint Readiness Training Center (JRTC) through content analysis of the Take Home Packages (THPs). Recurrent patterns in strengths and weaknesses are shown for 45 rifle companies, from 15 battalions, which rotated, to JRTC in the FY89-FY91 time frame. Overall morale and willingness to learn were high. However, problems in performance occurred throughout all phases of Light Infantry missions. Results showed that continuing emphasis in training was needed on troop leading procedures and all phases of preparation for combat. Maintenance of operational security was a problem for the units in conduct of JRTC missions. Further problems occurred in actions on contact/on the objective, and throughout the command, control, and communications process. Difficulties in using the THPs as a basis for analysis were noted and will be used in JRTC's continuing effort to upgrade and improve the THPs as user feedback.  
AC (28) (U)  
DL (33) 01  
SE (34) F  
CC (35) 408010

AN (1) AD-A324 409/XAG  
FG (2) 150400  
FG (2) 150600  
CI (3) (U)  
CA (5) Army Command And General Staff Coll Fort Leavenworth KS  
School Of Advanced Mil Itary Studies  
TI (6) Running Blind in the Desert: How the United States Army can Improve its Reconnaissance Planning and Execution at the National Training Center.  
DN (9) Monograph rept.,  
AU (10) Sanderson, Jeffrey R.  
RD (11) Dec 20, 1996

PG (12) 63  
RN (18) XA-USACGSC/SAMS  
RC (20) Unclassified report  
DE (23) \*Tactical Reconnaissance, Military Operations, Army Training, Military Doctrine, Documents, Army, Army Planning, Deserts, Tactical Warfare, Doctrine.  
DC (24) (U)  
ID (25) \*National Training Center, \*Desert Warfare, Monograph, Tactical Operations  
IC (26) (U)  
AB (27) This monograph discusses tactical ground reconnaissance at the National Training Center. Two previous studies of this subject revealed that the U.S. Army had a major weakness in this area. Both studies recommended changes in doctrine which would reduce the problem. The monograph analyses current doctrine to determine if reconnaissance is integrated into all facets of tactical operations. The monograph then reveals the results of a study of Take Home Packages from units rotating to the National Training Center. The monograph then recommends doctrinal changes which should increase the current reconnaissance success rate.  
AC (28) (U)  
DL (33) 01  
CC (35) 416090

AN (1) AD-A281 712/XAG  
FG (2) 120700  
FG (2) 120500  
FG (2) 050900  
CI (3) (U)  
CA (5) Army Research Inst For The Behavioral And Social Sciences Alexandria VA  
TI (6) **Evaluating the Unit Performance Assessment System's After Action Review Displays**  
AU (10) **Shlechter, Theodore M.**  
AU (10) Bessemer, David W.  
AU (10) Rowatt, Wade C.  
AU (10) Nesselroade, K. P., Jr  
RD (11) May 1994  
PG (12) 83  
RS (14) ARI-TR-997  
PJ (16) 2Q263007A794  
RN (18) XA-ARI  
RC (20) Unclassified report

DE (23) \*Computer Networks, \*Computerized Simulation, \*User Needs, \*Military Personnel, Armor, Battles, Demonstrations, Feedback, Flow, Materials, Training, Value.

DC (24) (U)

ID (25) AS794, PE63007A, UPA (Unit Performance Assessment), SIMNET (Simulation Networking).

IC (26) (U)

AB (27) This research effort assessed military users' judgments about different versions of the Unit Performance Assessment System's (UPAS) performance feedback capabilities in after action reviews (AARs) for Simulation Networking (SIMNET) training. Interactive demonstrations with SIMNET training personnel and operational unit personnel were performed to determine the utility of the feedback materials generated by UPAS. Specific findings indicated that (a) the slide show method of exercise replay was preferred over an animated rerun method; (b) Battle Snapshot displays were more likely to be used than Exercise Timeline or Battle Flow displays; and (c) divergent opinions existed regarding the value of certain displays. Armor training, Performance assessment, After action review, Simulation networking.

AC (28) (U)

DL (33) 01

CC (35) 408010

AD Number:

ADA338732

Fields & Groups:

HUMANITIES AND HISTORY

MILITARY FORCES AND ORGANIZATIONS

Corporate Author:

ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA  
VA

Title: **An Examination of Training Issues Associated with the Virtual Training Program.**

Descriptive Note: Final rept. Aug 96-Aug 97,

Personal Authors: **Shlechter, Theodore M.**; Shadrick, Scott B.; Bessemer, David W. ; Anthony, James

Report Date: SEP 1997

Pagination: 71 PAGES

Report Number: ARI-TR-1072

Project Number: A793

Task Number: 2124

Monitor Acronym: XA

Monitor Series: ARI

Descriptors:

**\*ARMY TRAINING, SIMULATION, PREPARATION, SKILLS, JOB TRAINING, RESPONSE,  
PROFICIENCY, QUESTIONNAIRES, LEADERSHIP TRAINING, INDIVIDUALIZED  
TRAINING, ADAPTIVE TRAINING.**

**Identifiers:**

**\*VTP(VIRTUAL TRAINING PROGRAM), SIMULATION BASED TRAINING, SIMULATION  
NETWORKING, HOME STATION PREPARATION, PE63007A, WUH01**

**Abstract:**

The present research effort was designed to examine the effects of units' home-station preparation upon their Virtual Training Program (VTP) activities. Also examined were the effects of the VTP upon units and unit leaders who had previously been through this training program. This investigation involved having unit leaders from platoons complete questionnaires on their preparation and sense of confidence in their own and their unit's tactical proficiency. Also, the VTP instructors completed questionnaire items on the participants' performance and level of preparation. Findings from both assessments provided further evidence for the VIP's instructional value. The participants' questionnaire responses indicated that the VTP had a significant, though modest, impact upon VTP-experienced unit leaders' sense of confidence in their own and their unit's tactical proficiency. The instructors' data suggested that the VTP had a salient effect upon the tactical skill proficiency of the sampled unit leaders. Their data also showed that home-station preparation did have an impact upon the training participants' VTP performance, and that many units were unprepared for their VIP rotation.

**Limitation Statement: APPROVED FOR PUBLIC RELEASE**

**Source Code: 408010**

**CITATION DATE: 01 APR 1997**

**Cost: \$6.00**

AN (1) AD-B093 592/XAG  
FG (2) 050600  
FG (2) 140200  
FG (2) 150600  
CI (3) (U)  
CA (5) NATIONAL WAR COLL WASHINGTON DC  
TI (6) The National Training Center: A Critique of Data Collection and Dissemination.  
DN (9) Final rept.,  
AU (10) **Simpson,K. W.**  
AU (10) Hale,D. R. E.  
AU (10) Sutherland,B. A.  
RD (11) Mar 1985  
PG (12) 79p

RS (14) NDU/NWC-SSP-85-06  
RC (20) Unclassified report  
AL (22) Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 85. Other requests must be referred to National War College, Director of Research, Washington, DC 20319-6000.  
DE (23) \*Military Training, \*Military Exercises, \*Data Acquisition, Information Transfer, Military Tactics, Battalion Level Organizations, Supervisors, Learning, Operational Effectiveness, Training, Weapon Systems  
DC (24) (U)  
ID (25) National Training Center  
IC (26) (U)  
AB (27) During all exercises, data was to be gathered that could be used to: assess training effectiveness of participating units; assist in doctrinal and readiness reviews; aid in weapons analysis and modeling; provide follow-on remedial training; measure the degree of experimental learning. Take Home Packages provide information, in summary form, to the Battalion Training Manager concerning the performance of a unit at the NTC. Additionally, both objective and subject data on weapons systems and tactical performance that are mentioned during the After Action Review are incorporated into the Take Home Package.  
AC (28) (U)  
DL (33) 02  
SE (34) F  
CC (35) 403736

AN (1) AD-A145 566/XAG  
FG (2) 050600  
FG (2) 150600  
FG (2) 250500  
CI (3) (U)  
CA (5) Science Applications INC McLean VA  
TI (6) Command Control Group Behaviors. Objective 2. Command Control Training with Simulations.  
DN (9) Final rept.,  
AU (10) **Tiede,R. V.**  
AU (10) Burt,R.  
AU (10) Gilpatrick,D.  
RD (11) Aug 1984  
PG (12) 174p

CT (15) MDA903-81-C-0254  
PJ (16) 2Q263744A795  
RN (18) ARI-RN-84-114  
RC (20) Unclassified report  
DE (23) \*Computerized simulation, \*Army training, \*Joint military activities, \*Tactical data systems, \*Command and control systems, Decision making, Behavior, Division level organizations, Battalion level organizations, Computer aided instruction, Data processing  
DC (24) (U)  
ID (25) Battle simulation, Command control training, PE63744A, AS795  
IC (26) (U)  
AB (27) This report provides the results of the first year's research of a three year effort to develop strategies and a planning guide for use of extant battle simulations in an integrated fashion to achieve maximum training benefit for resources expended. It describes the data collection effort, the development of a diagnostic tool, and an assessment of simulation suitability. Conclusions are: 1) There exists a need for common format, functional documentation for all extant simulations. 2) A single methodology for all simulations from corps to battalion level is highly desirable. 3) Extant simulations will continue to be used for purposes other than command and staff training; thus, there is a need to provide guidance as to the impact of simulation limitations for such applications. 4) Guidelines are needed for use of ARTEPs in conjunction with extant simulations. There is a need for development of specific guidance relating to feedback techniques and procedures. 6) Given ingenuity and careful preparation by exercise directors, the scope of extant simulations appears generally adequate. 7) Computer support acceptance will increase at local levels as junior officers familiar with simulations and computer technology advance in rank. 8) There is a need for guidance for training of staff elements prior to their participation in simulation play. 9) Simulation utility can be improved by increasing emphasis on the player planning process preceding actual execution.  
AC (28) (U)  
DL (33) 01  
SE (34) F  
CC (35) 408404

AN (1) AD-A314 913/XAG  
FG (2) 050100  
FG (2) 050200  
FG (2) 150100  
CI (3) (U)  
CA (5) BDM Federal Inc Seaside CA  
TI (6) Final Report: Maintenance of the National Training Center (NTC) Mission Database and Replay Program During FY 95.  
DN (9) Final rept. 5 Jan-21 Jul 95,

AU (10) **Walsh, William E.**

RD (11) Sep 1996

PG (12) 127

CT (15) MDA903-92-D-0075

RN (18) ARI-CR-96-86,

RN (18) XA-ARI

RC (20) Unclassified report

AL (22) Availability: Document partially illegible.

DE (23) \*Databases, \*Military Facilities, \*Maintenance Management, \*Military Training, \*Archives, User Manuals, Digital Systems, Department Of Defense, Operational Readiness, Missions, Analysts.

DC (24) (U)

ID (25) \*Relational Data Bases, NTC (National Training Center), AFG (Automated Finders Guide), BDA (Battle Damage Assessment), THP (Take Home Package), Mission Database

IC (26) (U)

AB (27) The purpose of this report is to document the work performed while maintaining the NTC Mission Database and Replay Program during the first six months of FY95. This project started in October 1994 and included a six month period of performance. This report includes a brief description of the NTC Mission Database, a copy of the User' Guide for the ARI-NTC Mission Database, a listing of the rotations and missions which are currently contained in the Mission Database, and the current C and FoxPro source code with documentation. The Department of Defense, through AR 11-33, has designated the Combat Training Center (CTC) Archive as the repository for all unit generated and unit performance data derived from training exercises conducted at the combat training centers. Archive data are used to assess unit performance/readiness and to validate unit training practices. CTC training data are stored in several digital databases within the CTC Archive to facilitate access and research by military analysts. The Archive Research Databases provide powerful capabilities for using and sharing the CTC training data.

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## **ABOUT THE UDRI HUMAN FACTORS GROUP**

The University of Dayton Research Institute (UDRI) Human Factors Group, experienced engineers and psychologists, specialize in the development and application of human factors and ergonomics. In addition, we focus on human factors aspects of aeronautical and training systems and their logistical implications. In the vision of the Human Factors Group partners, a common ground exists for academic, government, industry, and defense human factors analysis and design activities. We are affiliated with accredited human factors programs and faculty at the University of Dayton in Dayton, Ohio. We provide an academic leveraging basis and presence in a major human factors and ergonomics geographical center. Our personnel are located on the University of Dayton campus and at the nearby Wright-Patterson Air Force Base.